CONTENTS OF VOLUME 35

Ayers, G. W. Races of *Plasmodiophora brassicae*, 923.
Baenziger, H. See Goplen, B.P., 583.
Bannan, M. W. Girth increase in white cedar stems of irregular form, 425.
The relative frequency of the different types of anticlinal divisions in conifer cambium, 875.
Bannan, M. W. and **Fry, W. L.** Three Cretaceous woods from the Canadian Arctic, 327.
Barker, W. G. Filamentous growth in basswood tissue cultures, 805.
Basham, J. T. A technique for the sterilization and inoculation of wood cut from living trees, 31.
The deterioration by fungi of jack, red, and white pine killed by fire in Ontario, 155.
Bayley, S. T. See Setterfield, G., 435.
Bell, H. P. The development of the blueberry seed, 139.
Bell, H. P. and **Giffin, E. C.** The lowbush blueberry: The vascular anatomy of the ovary, 667.
Bidwell, R. G. S. Photosynthesis and metabolism of marine algae. I. Photosynthesis of two marine flagellates compared with *Chlorella*, 945.
Bond, G. See Gardner, I. C., 305.
Bowden, W. M. Cytotaxonomy of section *Psammelymus* of the genus *Elymus*, 951.
Buckland, D. C., Redmond, D. R., and **Pomerleau, R.** Definitions of terms in forest and shade tree diseases, 675.
Cain, R. F. Studies of coprophilous ascomycetes. VI. Species from the Hudson Bay area, 255.
Cain, R. F. and **Weresub, L. K.** Studies of coprophilous ascomycetes. V. *Sphaeronaemella fimicola*, 119.
Campbell, W. P. Studies on ergot infection in gramineous hosts, 315.
Chinn, S. H. F. and **Ledingham, R. J.** Studies on the influence of various substances on the germination of *Helminthosporium sativum* spores in soil, 697.
Clark, J. and **Gibbs, R. D.** Studies in tree physiology. IV. Further investigations of seasonal changes in moisture content of certain Canadian forest trees, 219.
Coles, C. H. and **Waygood, E. R.** On the extraction of enzymes from succulent plants, 25.
Corns, W. G. See Miller, S. R., 5.
Cowie, L. M. and **Krotkov, G.** The biosynthesis of radioactive arabinose, xylose, and galactose using detached wheat seedlings, 1.
Craston, D. F. See Vallentyne, J. R., 35.
Dale, H. M. Developmental studies of *Elodea canadensis* Michx. I. Morphological development at the shoot apex, 13.
Developmental studies of *Elodea canadensis* Michx. II. Experimental studies on morphological effects of darkness, 51.
Davidson, A. G. Studies in forest pathology. XVI. Decay of balsam fir, *Abies balsamea* (L.) Mill., in the Atlantic provinces, 857.
Duff, G. H. and **Nolan, N. J.** Growth and morphogenesis in the Canadian forest species. II. Specific increments and their relation to the quantity and activity of growth in *Pinus resinosa* Ait., 527.
Eberhardt, F. M. See Kates, M., 895.
Eberhardt, F. M. and **Kates, M.** Incorporation of C^{14} or P^{32} into the phosphatides of runner bean leaves, 907.
Etheridge, D. E. Comparative studies of *Coryne sarcoides* (Jacq.) Tul. and two species of wood-destroying fungi, 595.
A method for the study of decay resistance in wood under controlled moisture conditions, 615.
Moisture and temperature relations of heartwood fungi in subalpine spruce, 935.
Farstad, C. W. See Lopatecki, L. E., 9.
Fensom, D. S. The bio-electric potentials of plants and their functional significance. I. An electrokinetic theory of transport, 573.
Fry, W. L. See Bannan, M. W., 327.
Gardner, I. C. and **Bond, G.** Observations on the root nodules of *Shepherdia*, 305.
Gibbs, R. D. See Clark, J., 219.
Giffin, E. C. See Bell, H. P., 667.
Good, H. M. See Naqvi, S. H. Z., 635.
Goplen, B. P., Greenshields, J. E. R., and **Baenziger, H.** The inheritance of coumarin in sweet clover, 583.
Gorham, P. R. See Nelson, C. D., 339, 703.
Greenshields, J. E. R. See Goplen, B. P., 583.
Hall, I. V. The tap root in lowbush blueberry, 933.
Kates, M. See Eberhardt, F. M., 907.

Kates, M. and **Eberhardt, F. M.** Isolation and fractionation of leaf phosphatides, 895.
Krotkov, G. See Cowie, L. M., 1.
Leach, W. See Taper, C. D., 773.
Ledingham, G. F. Chromosome numbers of some Saskatchewan Leguminosae with particular reference to *Astragalus* and *Oxytropis*, 657.
See also Chinn, S. H. F., 697.
Lesins, K. Cytogenetic study on a tetraploid plant at the diploid chromosome level, 181.
Lewin, R. A. Four new species of *Chlamydomonas*, 321.
The zygote of *Chlamydomonas moewusii*, 795.
Longair, E. L. See Lopatecki, L. E., 9.
Lopatecki, L. E., Longair, E. L., and **Farstad, C. W.** Soluble carbohydrates of wheat stems and leaves, 9.
Löve, Á., Löve, D., and **Raymond, M.** Cytotaxonomy of *Carex* section *Capillares*, 715.
Löve, Á. and **Sarkar, P.** Chromosomes and relationships of *Koenigia islandica*, 507.
Ludwig, R. A. Toxin production by *Helminthosporium sativum* P.K. and B. and its significance in disease development, 291.
See also Ross, R. G., 65; Winslow, R. D., 619.
Ludwig, R. A., White, R. W., and **Unwin, C. H.** A rapid quantitative test for phytotoxicity and its use in the examination of a series of alkyl-substituted cyclohexenones, 605.
McKeen, C. D. *Phomopsis* black rot of cucurbits, 43.
MacNeill, B. H. and **Zalasky, H.** Histological study of host–parasite relationships between *Septoria glycines* Hemmi and soybean leaves and pods, 501.
Macrae, R. See Nobles, M. K., 377.
von Maltzahn, K. E. A study of size differences in two strains of *Cucurbita pepo* L. I. Gross size differences, 809.
A study of size differences in two strains of *Cucurbita pepo* L. II. Histological and cellular size differences, 831.
Mellor, F. C. See Stace-Smith, R., 287.
Miller, S. R. and **Corns, W. G.** The constitution of sugar beet seedlings associated with chemically induced improvement in their low temperature resistance, 5.
Mulligan, G. A. Chromosome numbers of Canadian weeds. I, 779.
Murray, B. E. The ontogeny of adventitious stems on roots of creeping-rooted alfalfa, 463.
Naqvi, S. H. Z. and **Good, H. M.** Studies of the aging of conidia of *Monilinia fructicola* (Wint.) Honey. I. Germination rates and longevity, 635.
Nelson, C. D. and **Gorham, P. R.** Uptake and translocation of C^{14}-labelled sugars applied to primary leaves of soybean seedlings, 339.
Translocation of radioactive sugars in the stems of soybean seedlings, 703.
Newton, W. The utilization of single organic nitrogen compounds by wheat seedlings and by *Phytophthora parasitica*, 445.
Nobles, M. K., Macrae, R. and **Tomlin, B. P.** Results of interfertility tests on some species of Hymenomycetes, 377.
Nolan, N. J. See Duff, G. H., 527.
Paquin, R. and **Waygood, E. R.** The effect of *Fusarium* toxins on the enzymic activity of tomato hypocotyl mitochondria, 207.
Parker, A. K. *Europhium*, a new genus of the ascomycetes with a *Leptographium* imperfect state, 173.
The nature of the association of *Europhium trinacriforme* with pole blight lesions, 845.
Pomerleau, R. See Buckland, D. C., 675.
Redmond, D. R. See Buckland, D. C., 675.
Richardson, L. T. Quantitative determination of viability of potato ring rot bacteria following storage, heat, and gas treatments, 647.
Ross, R. G. and **Ludwig, R. A.** A comparative study of fungitoxicity and phytotoxicity in an homologous series of N-*n*-alkylethylenethioureas, 65.
Rouse, G. E. The application of a new nomenclatural approach to upper Cretaceous plant microfossils from Western Canada, 349.
Russell, J. Aminotriazole interactions in the growth of timothy grass seedlings, 409.
Samborski, D. J. See Shaw, M., 389.
Samborski, D. J. and **Shaw, M.** The physiology of host–parasite relations. IV. The effect of maleic hydrazide and indoleacetic acid on the rust resistance of Khapli and Little Club wheats, 449.
The physiology of host–parasite relations. IVA. The effect of maleic hydrazide on the carbohydrate, nitrogen, and free amino acid content of the first leaf of Khapli wheat, 457.
Sarkar, P. See Löve, Á., 507.
Savile, D. B. O. Additions to the parasitic fungi of Nova Scotia, 197.
Notes on boreal Ustilaginales. II, 279.
Setterfield, G. Fine structure of guard-cell walls in *Avena* coleoptile, 791.

Setterfield, G. and **Bayley, S. T.** Studies on the mechanism of deposition and extension of primary cell walls, 435.
Shaw, D. E. Studies on *Leptosphaeria avenaria* f. sp. *avenaria*, 97.
Studies on *Leptosphaeria avenaria* f. sp. *triticea* on cereals and grasses, 113.
Shaw, M. See Samborski, D. J., 449, 457.
Shaw, M. and **Samborski, D. J.** The physiology of host–parasite relations. III. The pattern of respiration in rusted and mildewed cereal leaves, 389.
Shoemaker, R. A. Atkinson's species of *Helminthosporium* on grasses from Alabama, 269.
Smith, F. G. See Switzer, C. M., 515.
Stace-Smith, R. and **Mellor, F. C.** Studies on *Rubus* virus diseases in British Columbia. IV. Transmission of raspberry mosaic viruses to *Fragaria vesca* L., 287.
Switzer, C. M. and **Smith, F. G.** Factors affecting oxidation and phosphorylation by soybean mitochondria, 515.
Taper, C. D. and **Leach, W.** Studies in plant mineral nutrition. III. The effects of calcium concentration in culture solutions upon the absorption of iron and manganese by dwarf kidney bean, 773.
Taylor, A. R. A. Studies of the development of *Zostera marina* L. I. The embryo and seed, 477.
Studies of the development of *Zostera marina* L. II. Germination and seedling development, 681.
Tomlin, B. P. See Nobles, M. K., 377.
Unwin, C. H. See Ludwig, R. A., 605.
Vaartaja, O. Photoperiodic responses in seedlings of northern tree species, 133.
Vallentyne, J. R. and **Craston, D. F.** Sedimentary chlorophyll degradation products in surface muds from Connecticut lakes, 35.
Waygood, E. R. See Coles, C. H., 25; Paquin, R., 207.
Weintraub, M. See Willison, R. S., 763.
Weresub, L. K. See Cain, R. F., 119.
White, R. W. See Ludwig, R. A., 605.
Willison, R. S. and **Weintraub, M.** Properties of a strain of cucumber-mosaic virus isolated from *Prunus* hosts, 763.
Winslow, R. D. and **Ludwig, R. A.** Studies on hatching stimulation in the beet nematode, *Heterodera schachtii* Schmidt, 619.
Zalasky, H. See MacNeill, B. H., 501.
Ziller, W. G. Studies of western tree rusts. III. *Milesia laeviuscula*, a needle rust of grand fir, 885.